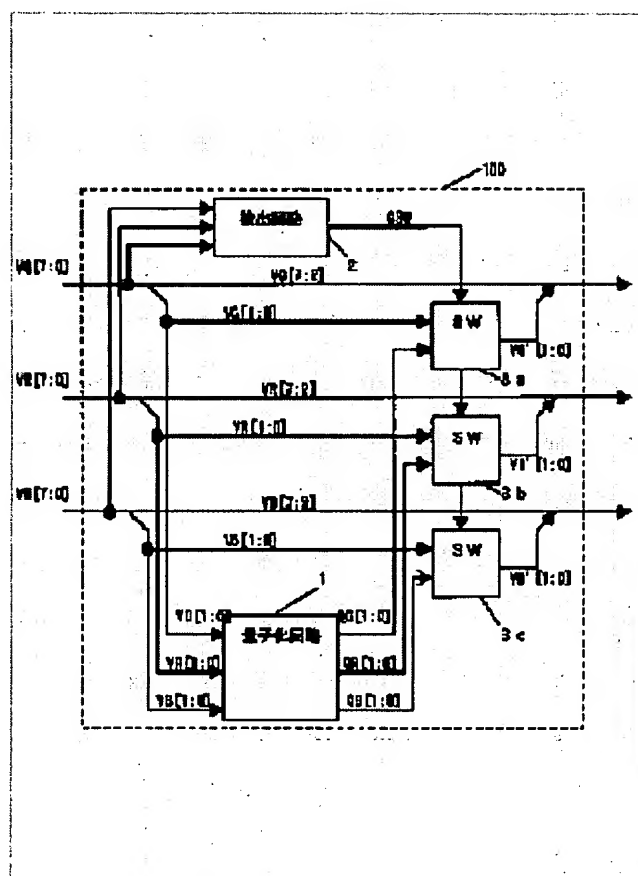


# DISPLAY DEVICE FOR COLOR VIDEO SIGNAL

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## Abstract of JP2000023181

**PROBLEM TO BE SOLVED:** To reduce a color noise generated by a dither or an error diffusion processing and staining of a black level neighborhood generated by white balance adjustment by replacing a combination of levels of input video signals R, G and B with a representative vector structured by the combination of the levels of predetermined R, G and B. **SOLUTION:** A detection circuit 2 calculates a luminance level from input signals VG, VR and VB, detects an area where this luminance level is below a specified value and outputs a decision signal QSW. A quantization circuit 1 has signals of lower-order 2 bits of input signals VG, VR and VB inputted respectively and converts into a combination of luminance levels in which a color noise is difficult to generate. Switch circuits 3a to 3c can reduce the color noise which is conspicuous by a black neighborhood luminance by selecting signals QG, QR and QB converted by the quantization circuit 1. Also, it is possible to express a correct gradation and hue.



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